ABSTRACT

[0052] Memory devices in accordance with the present invention can comprise a molecular

memory integrated circuit including a set of actuators capable of moving one or more platforms. In one

embodiment the platforms can include either a memory device or a Molecular Array Read/Write Engine

(MARE) with a cantilever system having at least one cantilever tip. When a first platform with a

memory device is brought within close proximity of a second platform with a MARE, the actuators can

position the cantilever tip to a specific location on the memory device. The tip of the cantilever can

perform a number of functions to the memory device, including reading the state of the memory device

or changing the state of the memory device. This description is not intended to be a complete

description of, or limit the scope of, the invention.

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